

Series **HTX** Chip Conductive Polymer Hybrid Aluminum Electrolytic Capacitors, for Automotive.

- For surface mount 125°C / 135°C, 4000 hours guaranteed.
- RoHS Compliant. ● AEC-Q200 Qualified.
- For Vibration resistance. (30G guaranteed)

Tentative

● **P/N: RAHTX181M4EFP5002KX**

(Old P/N : HTX-63V181MHHKXQ-R2)

■ Spec sheet

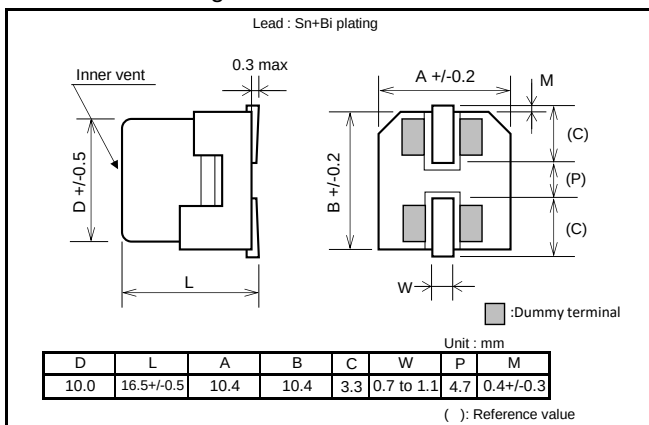
XHQP-K46KXQ

Item	Performance				
Category temperature range (°C)	-55 to +135				
Rated Voltage (V)	63				
Rated Capacitance (uF)	180 (20°C,120Hz)				
Tolerance at rated capacitance (%)	-20 to +20 (20°C,120Hz)				
Leakage current (uA)	Less than 113 uA (after 2minutes) (20°C)				
Tangent of loss angle (max.)	Rated voltage (V)	63	(20°C,120Hz)		
	Tangent of loss angle	0.08			
ESR (mohm max.)	20°C	15	(100kHz)		
Rated ripple current (mArms)	Temperature (°C)	125	135	(100kHz)	
	Rated Ripple Current	5200	3600		
Coefficient of frequency for Rated Ripple Current	Frequency (Hz)	120	1k	10k	100k
	Coefficient	0.10	0.30	0.60	1
Endurance 125°C / 135°C (Applied ripple current)	Test time	4000 hours			
	Leakage current	The initial specified value or less			
	Capacitance change	Within -30% to +30% of initial value			
	Tangent of loss angle	200% or less of the initial specified value			
	ESR	200% or less of the initial specified value			
Shelf life 135°C	Test time	1000 hours			
	Leakage current	The initial specified value or less			
	Capacitance change	Within -30% to +30% of initial value			
	Tangent of loss angle	200% or less of the initial specified value			
	ESR	200% or less of the initial specified value			

■ Part numbering system

R Product group Electrolytic capacitor	A Category For automotive AEC-Q200	HTX Series code	181 Rated capacitance code	M Capacitance tolerance code	4E Rated voltage code	FP5 Case size code	002 Forming and packing code	KX Additional code
---	--	---------------------------	--------------------------------------	--	---------------------------------	------------------------------	--	------------------------------

■ Outline drawing



■ Marking

Case top printing (in blue ink)

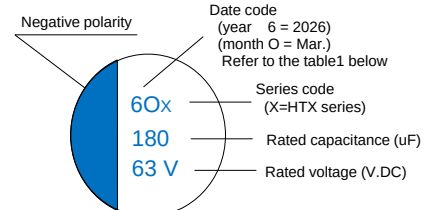


table1

Month code	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Aomori	A	B	C	D	E	F	G	H	I	J	K	L
SHIRAKAWA	M	N	O	P	Q	R	S	T	U	V	W	X

■ Weight : 2.4 g

*Weight of item isn't guaranteed.

(Note) Specifications and dimensions may change without notice for the purpose of improvement.

(Note) It is recommended that you shall obtain technical specifications from ELNA CO., LTD. to ensure that the component is suitable for your intended use.

ELNA CO., LTD.
<https://www.ena.co.jp/>

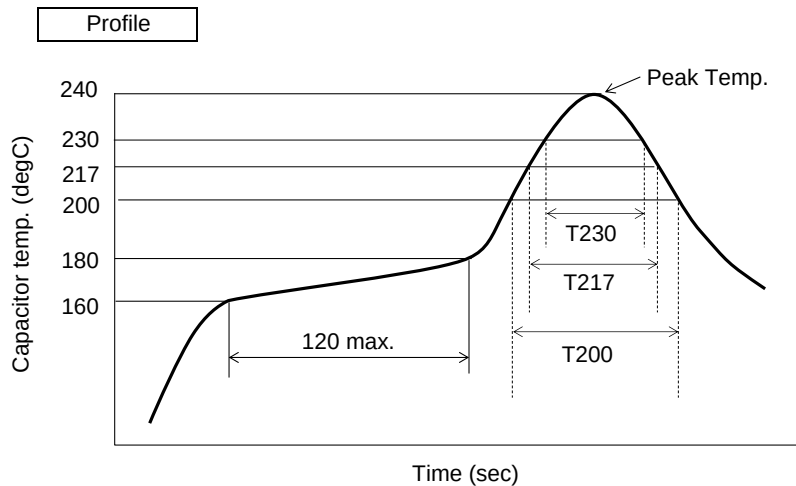
Kyobashi East Bldg. 9F, 2-7-19, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan
TEL: 03-4221-4950 FAX: 03-4221-4951

■ Recommended soldering condition

(1) Soldering iron conditions

Iron tip temperature shall be 400degC +5/-5degC within the duration of 3 +1/-0 seconds.

(2) Reflow soldering conditions



T200: Duration while capacitor head temperature exceeds 200 degC(sec)

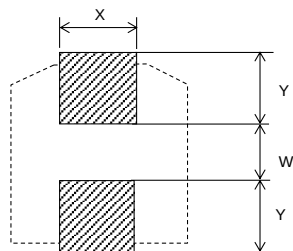
T217: Duration while capacitor head temperature exceeds 217 degC(sec)

T230: Duration while capacitor head temperature exceeds 230 degC(sec)

The measurement temperature point is the case top.

Pre heat	Peak temp. (degC)	Peak temp.	T200 (sec)	T217 (sec)	T230 (sec)	reflow cycle
160 to 180 degC 120sec max	240 max	5sec or less	60 max	50 max	40 max	2 times or less

■ Recommended land pattern size



X	Y	W
5.0	4.8	3.6

Unit : mm

Recommended Solder Paste Thickness : 0.20mm

(Note) Specifications and dimensions may change without notice for the purpose of improvement.

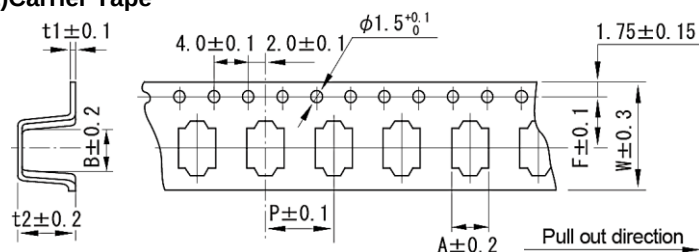
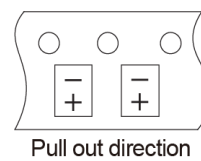
(Note) It is recommended that you shall obtain technical specifications from ELNA CO., LTD. to ensure that the component is suitable for your intended use.

ELNA CO., LTD.

<https://www.elna.co.jp/>

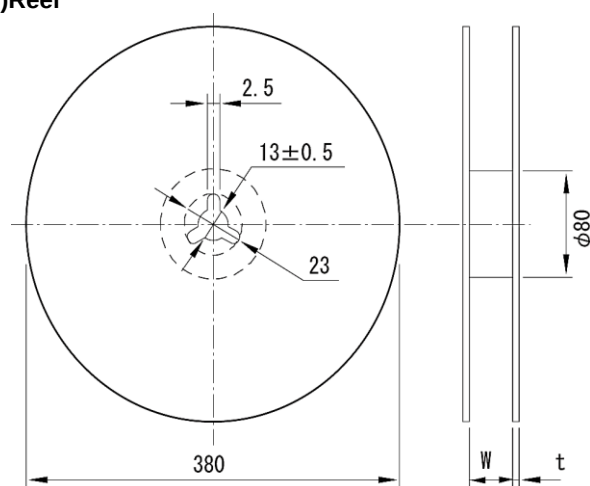
Kyobashi East Bldg. 9F, 2-7-19, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan

TEL: 03-4221-4950 FAX: 03-4221-4951

SPEC SHEET
CHIP CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS.
UH-6315 (3/3)
■ Tape and Reel
(1)Carrier Tape

(2)Polarity


Unit : mm

W	A	B	P	t2	F	t1
24.0	10.7	10.7	20.0	17.5	11.5	0.5

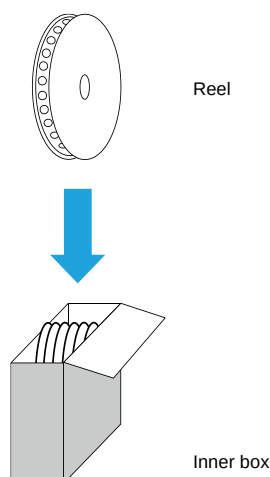
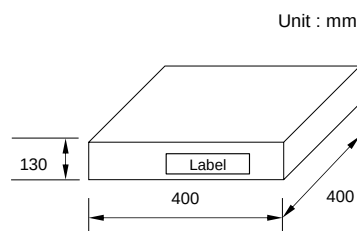
(3)Reel


Unit : mm

W	t
26	3

(4)Quantity

Case size	Quantity per reel
10x16.5	250 pcs

■ Packing specification
(1)Packing style

(2)Inner box

(3)Packing quantity

Case size	Quantity per inner box
10x16.5	1000 pcs

(4)Packing weight

Case size	Weight per inner box
10x16.5	5.1 kg

*Packing weight isn't guaranteed.

(Note) Specifications and dimensions may change without notice for the purpose of improvement.

(Note) It is recommended that you shall obtain technical specifications from ELNA CO., LTD. to ensure that the component is suitable for your intended use.